

## EAST Search History

| Ref # | Hits | Search Query   | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|--|--|------------------|---------|------------------|
| S2    | 0    | (CHILDS.in. or LACONTII.in. or PATCH.in. or BRINKMAN.in. or MONROE.in. or HILDEN.in. or SZYMKOWICZ.in.) and (exhaust near4 gas) and (engine) and (hydrogen near4 generat\$4) | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TDB | OR               | ON      | 2004/09/19 13:26 |
| S3    | 15   | (CHILDS.in. or LACONTII.in. or PATCH.in. or BRINKMAN.in. or MONROE.in. or HILDEN.in. or SZYMKOWICZ.in.) and (exhaust near4 gas) and (hydrogen)                               | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TDB | OR               | ON      | 2004/09/19 13:25 |
| S4    | 1227 | (exhaust near4 gas) and (engine) and (hydrogen near4 generat\$4)   | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TDB | OR               | ON      | 2004/09/19 13:32 |
| S5    | 534  | (exhaust near4 gas) and (engine) and (hydrogen near4 generat\$4) and (water near3 vapor\$4)  | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TDB | OR               | ON      | 2004/09/19 13:54 |

## EAST Search History

|    |    |  |   |    |    |                  |
|----|----|--|---|----|----|------------------|
| S6 | 24 | (exhaust near4 gas) and (engine) and (hydrogen near4 generat\$4) and (water near3 vapor\$4) and (60/272-324.ccls.)   | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON | 2004/09/20 10:30 |
| S7 | 30 | (exhaust near4 gas) and (engine) and (hydrogen near4 generat\$4) and ((water or vapor\$4) near3 exhaust) and (60/272-324.ccls.)  | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON | 2004/09/19 13:34 |
| S8 | 63 | (exhaust near4 gas) and (engine) and (hydrogen near4 generat\$4) and (water or vapor\$4) and (60/272-324.ccls.)  | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON | 2004/09/19 13:42 |
| S9 | 16 | ((exhaust near4 gas) and (engine) and (hydrogen near4 generat\$4) and ((water or vapor\$4) near3 exhaust) and (60/272-324.ccls.)) not ((exhaust near4 gas) and (engine) and (hydrogen near4 generat\$4) and (water near3 vapor\$4) and (60/272-324.ccls.)) | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON | 2004/09/19 13:40 |

## EAST Search History

|     |    |   |   |    |    |                  |
|-----|----|---|---|----|----|------------------|
| S10 | 33 | ( (exhaust near4 gas) and (engine) and (hydrogen near4 generat\$4) and (water or vapor\$4) and (60/272-324.ccls.)) not ( (exhaust near4 gas) and (engine) and (hydrogen near4 generat\$4) and ((water or vapor\$4) near3 exhaust) and (60/272-324.ccls.)) | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON | 2004/09/19 13:41 |
| S11 | 9  | (exhaust near4 gas) and (engine) and (hydrogen near4 generat\$4) and (water or vapor\$4) and (binh.xa,xp.)  | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON | 2004/09/19 13:43 |
| S12 | 47 | (exhaust near4 gas) and (engine) and (hydrogen and generat\$4) and (water or vapor\$4) and (binh.xa,xp.)  | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON | 2006/06/19 09:12 |
| S13 | 9  | ("3558286"   "5044157"   "5284556"   "5457955"   "5458748"   "5492678"   "5596974"   "5746984"   "6264899").PN.   | USPAT   | OR | ON | 2004/09/19 13:45 |
| S14 | 0  | "6716398".URPN.   | USPAT   | OR | ON | 2004/09/19 13:45 |
| S15 | 0  | "6716398".URPN.   | USPAT   | OR | ON | 2004/09/19 13:45 |

## EAST Search History

|     |    |   |       |    |    |                     |
|-----|----|---|-------|----|----|---------------------|
| S16 | 57 | ("1333836"   "1725661"  <br>"1982484"   "3188167"  <br>"3896616"   "3979193"  <br>"3983021"   "4041922"  <br>"4118193"   "4185316"  <br>"4195606"   "4309199"  <br>"4434771"   "4519357"  <br>"4780277"   "4902487"  <br>"4945721"   "4954320"  <br>"4968396"   "4979364"  <br>"5097665"   "5154807"  <br>"5284556"   "5402639"  <br>"5410871"   "5419123"  <br>"5433832"   "5440876"  <br>"5474747"   "5487874"  <br>"5549795"   "5609736"  <br>"5623819"   "5649507"  <br>"5655210"   "5695619"  <br>"5711147"   "5746984"  <br>"5753087"   "5771683"  <br>"5806305"   "5807466"  <br>"5822981"   "5827407"  <br>"5836154"   "5843288"  <br>"5843383"   "5845488"  <br>"5847494"   "5855855"  <br>"5866081"   "5891409"  <br>"5893267"   "5904905"  <br>"6007682"   "6048500"  <br>"6119455").PN. | USPAT | OR | ON | 2004/09/19<br>13:45 |
| S17 | 3  | "6264899".URPN.   | USPAT | OR | ON | 2004/09/19<br>13:45 |
| S18 | 7  | ("5207185"   "5305714"  <br>"5343699"   "5357908"  <br>"5394852"   "5488932"  <br>"5692458").PN.  | USPAT | OR | ON | 2004/09/19<br>13:46 |
| S19 | 9  | "6155212".URPN.   | USPAT | OR | ON | 2004/09/19<br>13:46 |
| S20 | 8  | ("4442801"   "5272871"  <br>"5441401"   "5543124"  <br>"5786104"   "5787864"  <br>"5813222"   "5921076").<br>PN.  | USPAT | OR | ON | 2004/09/19<br>13:46 |

## EAST Search History

|     |    |  |       |    |    |                     |
|-----|----|--|-------|----|----|---------------------|
| S21 | 23 | "6122909".URPN.  | USPAT | OR | ON | 2004/09/19<br>13:46 |
| S22 | 23 | "6122909".URPN.  | USPAT | OR | ON | 2004/09/19<br>13:46 |
| S23 | 12 | ("3779014"   "3826810"  <br>"3842600"   "3986350"  <br>"4033133"   "4050903"  <br>"4157375"   "4403473"  <br>"4585632"   "5041272"  <br>"5164350"   "5272871").<br>PN. | USPAT | OR | ON | 2004/09/19<br>13:46 |
| S24 | 85 | "5412946".URPN.  | USPAT | OR | ON | 2004/09/19<br>13:46 |
| S25 | 6  | ("3311097"   "3779014"  <br>"3815337"   "3908371"  <br>"3986350"   "4484444").<br>PN.  | USPAT | OR | ON | 2004/09/19<br>13:47 |
| S26 | 81 | "5272871".URPN.  | USPAT | OR | ON | 2004/09/19<br>13:47 |
| S27 | 12 | ("3842600"   "5272871"  <br>"5412946"   "5685145"  <br>"5753188"   "5813222"  <br>"5845485"   "5921076"  <br>"5953908"   "5964089"  <br>"6006515"   "6122909").<br>PN. | USPAT | OR | ON | 2004/09/19<br>13:47 |
| S28 | 1  | "6272849".URPN.  | USPAT | OR | ON | 2004/09/19<br>13:47 |
| S29 | 5  | ("3908371"   "5207734"  <br>"5239824"   "5272873"  <br>"5806304").PN.  | USPAT | OR | ON | 2004/09/19<br>13:48 |
| S30 | 5  | "6122908".URPN.  | USPAT | OR | ON | 2004/09/19<br>13:48 |
| S31 | 5  | ("3170758"   "5272871"  <br>"5474745"   "5522218"  <br>"5524432").PN.  | USPAT | OR | ON | 2004/09/19<br>13:48 |
| S32 | 17 | "5921076".URPN.  | USPAT | OR | ON | 2004/09/19<br>13:48 |

## EAST Search History

|     |    |  |   |    |    |                  |
|-----|----|--|---|----|----|------------------|
| S33 | 1  | (exhaust near4 gas) and (engine) and (hydrogen near4 generat\$4) and ((water near3 vapor\$4) near4 exhaust) and (exhaust near4 divert\$4 near4 generat\$4) | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON | 2004/09/19 13:51 |
| S34 | 3  | ("5154807"   "5259962"   "5478481").PN.  | USPAT   | OR | ON | 2004/09/19 13:51 |
| S35 | 11 | "5863413".URPN.  | USPAT   | OR | ON | 2004/09/19 13:51 |
| S36 | 11 | (exhaust near4 gas) and (engine) and (hydrogen near4 generat\$4) and (water near3 vapor\$4) and (exhaust near4 divert\$4)                                  | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON | 2004/09/19 13:52 |
| S37 | 6  | (exhaust near4 gas) and (engine) and (hydrogen near4 generator) and (exhaust near4 divert\$4)  | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON | 2004/09/19 13:52 |
| S38 | 4  | (exhaust near4 gas) and (engine) and (hydrogen near4 generat\$4) and (water near3 vapor\$4) and (electrol\$4) and (exhaust near4 divert\$4)                | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON | 2004/09/19 13:53 |

## EAST Search History

|     |    |  |   |    |    |                  |
|-----|----|--|---|----|----|------------------|
| S39 | 1  | (exhaust near4 gas) and (engine) and (hydrogen near4 generat\$4) and (water near3 vapor\$4) and (exhaust near4 divert\$4 near4 generat\$4) | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON | 2004/09/19 13:54 |
| S40 | 59 | (exhaust near4 gas) and (engine) and (hydrogen near4 generator) and (electrol\$4 and vapor\$4)   | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON | 2006/06/19 09:12 |
| S41 | 15 | (exhaust near4 gas) and (engine) and (hydrogen near4 generator) and (electrol\$4) and (exhaust near4 vapor\$4)                             | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON | 2004/09/19 13:55 |
| S42 | 31 | (exhaust near4 gas) and (engine) and (hydrogen near4 generator) and (electrol\$4) and (exhaust near4 (water or vapor\$4))                  | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON | 2006/06/19 09:27 |

## EAST Search History

|     |    |  |   |    |     |                  |
|-----|----|--|---|----|-----|------------------|
| S45 | 4  | (exhaust near4 gas) and (engine) and (hydrogen near4 generat\$4) and (water near3 vapor\$4) and (electroly\$4) and (hydrogen and water and generat\$4 and vapor\$4) and (divert\$4 near4 exhaust)                            | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON  | 2004/09/20 10:33 |
| S46 | 98 | (exhaust near4 gas) and (engine) and (hydrogen near4 generat\$4) and (water near3 vapor\$4) and (electroly\$4) and (hydrogen and water and generat\$4 and vapor\$4) and ((vapor\$4 or water) near4 exhaust)                  | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON  | 2006/06/19 09:27 |
| S47 | 59 | (exhaust near4 gas) and (engine) and (hydrogen near4 generat\$4) and (water near3 vapor\$4) and (electroly\$4) and (hydrogen and water and generat\$4 and vapor\$4) and ((vapor\$4 or water) near4 exhaust) and (collect\$4) | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON  | 2006/06/19 09:27 |
| S48 | 12 | (US-6272849-\$ or US-5921076-\$ or US-6122908-\$ or US-6155212-\$ or US-6122909-\$ or US-6264899-\$ or US-6716398-\$ or US-6659049-\$ or US-6464854-\$ or US-5272871-\$ or US-5412946-\$ or US-5863413-\$).did.              | USPAT   | OR | OFF | 2004/10/18 08:41 |



## EAST Search History

|     |     |  |  |    |    |                     |
|-----|-----|--|--|----|----|---------------------|
| S49 | 5   | ((US-6272849-\$ or<br>US-5921076-\$ or<br>US-6122908-\$ or<br>US-6155212-\$ or<br>US-6122909-\$ or<br>US-6264899-\$ or<br>US-6716398-\$ or<br>US-6659049-\$ or<br>US-6464854-\$ or<br>US-5272871-\$ or<br>US-5412946-\$ or<br>US-5863413-\$).did.) and<br>(humidit\$4) | US-PGPU<br>B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | OR | ON | 2004/10/18<br>08:41 |
| S50 | 503 | (exhaust near4 gas) and<br>(engine) and (hydrogen<br>near4 generat\$4) and<br>(water near3 vapor\$4)<br>and (electroly\$4) and<br>(hydrogen and water and<br>generat\$4 and vapor\$4)  | US-PGPU<br>B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | OR | ON | 2006/06/19<br>09:42 |
| S51 | 11  | (CHILDS.in. or LACONTII.<br>in. or PATCH.in. or<br>BRINKMAN.in. or<br>MONROE.in. or HILDEN.in.<br>or SZYMKOWICZ.in.) and<br>(exhaust near4 gas) and<br>(engine) and (hydrogen)   | US-PGPU<br>B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | OR | ON | 2006/06/15<br>15:49 |
| S52 | 151 | (exhaust near4 gas) and<br>(engine) and (hydrogen<br>near4 generat\$4) and<br>(water near3 vapor\$4)<br>and (electroly\$4) and<br>(hydrogen and water and<br>generat\$4 and vapor\$4)<br>and ((vapor\$4 or water)<br>near4 exhaust)                                    | US-PGPU<br>B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | OR | ON | 2006/06/19<br>09:11 |

## EAST Search History

|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S53 | 503 | (exhaust near4 gas) and (engine) and (hydrogen near4 generat\$4) and (water near3 vapor\$4) and (electroly\$4) and (hydrogen and water and generat\$4 and vapor\$4)   | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON | 2006/06/19 09:11 |
| S54 | 59  | (exhaust near4 gas) and (engine) and (hydrogen and generat\$4) and (water or vapor\$4) and (binh.xa,xp.)  | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON | 2006/06/19 12:16 |
| S55 | 83  | (exhaust near4 gas) and (engine) and (hydrogen near4 generator) and (electrol\$4 and vapor\$4)  | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON | 2006/06/19 10:37 |
| S56 | 151 | (exhaust near4 gas) and (engine) and (hydrogen near4 generat\$4) and (water near3 vapor\$4) and (electroly\$4) and (hydrogen and water and generat\$4 and vapor\$4) and ((vapor\$4 or water) near4 exhaust) | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON | 2006/06/19 09:13 |

## EAST Search History

|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S57 | 57  | (exhaust near4 gas) and (engine) and (hydrogen near4 generator) and (electrol\$4) and (exhaust near4 (water or vapor\$4))  | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON | 2006/06/19 10:37 |
| S58 | 151 | (exhaust near4 gas) and (engine) and (hydrogen near4 generat\$4) and (water near3 vapor\$4) and (electroly\$4) and (hydrogen and water and generat\$4 and vapor\$4) and ((vapor\$4 or water) near4 exhaust)                  | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON | 2006/06/19 09:41 |
| S59 | 83  | (exhaust near4 gas) and (engine) and (hydrogen near4 generat\$4) and (water near3 vapor\$4) and (electroly\$4) and (hydrogen and water and generat\$4 and vapor\$4) and ((vapor\$4 or water) near4 exhaust) and (collect\$4) | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON | 2006/06/19 09:27 |
| S60 | 57  | (exhaust near4 gas) and (engine) and (hydrogen near4 generator) and (electrol\$4) and (exhaust near4 (water or vapor\$4))  | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON | 2006/06/19 09:28 |

## EAST Search History

|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S61 | 503 | (exhaust near4 gas) and (engine) and (hydrogen near4 generat\$4) and (water near3 vapor\$4) and (electroly\$4) and (hydrogen and water and generat\$4)                        | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON | 2006/06/19 09:38 |
| S62 | 58  | (exhaust near4 gas) and (engine) and (hydrogen near4 generat\$4) and (water near3 vapor\$4) and (electroly\$4) and (hydrogen and water and generat\$4 and vapor\$4) and (NOx) | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON | 2006/06/19 09:43 |
| S63 | 64  | (exhaust near4 gas) and (engine) and (hydrogen near4 generat\$4) and (electroly\$4) and (hydrogen and water and generat\$4 and vapor\$4) and (NOx)                            | US-PGPU B;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN T;<br>IBM_TD B | OR | ON | 2006/06/19 09:43 |